

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP03/07594

**A. CLASSIFICATION OF SUBJECT MATTER**  
Int.Cl' C08G85/00, C08J5/00, C08L101/16//C08L101:00

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl' C08G85/00, C08J5/00, C08L101/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched  
 Jitsuyo Shinan Koho 1926-1996 Jitsuyo Shinan Toroku Koho 1996-2003  
 Kokai Jitsuyo Shinan Koho 1971-2003 Toroku Jitsuyo Shinan Koho 1994-2003

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)  
 CAS ONLINE

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5491210 A (Kimberly-Clark Corp.), 13 February, 1996 (13.02.96), Claims; column 7, Par. No. [0005]; column 8, last paragraph (Family: none)	1-4, 6, 7, 10, 11-13, 15-21 5, 8, 9, 14
Y	US 5489451 A (Roehm GmbH Chemische Fabrik), 06 February, 1996 (06.02.96), Claims; column 7 & JP 05-279492 A Page 10, Par. Nos. [0047] to [0048] & DE 4139563 A1 & EP 545235 A1	5

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"E" earlier document but published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search 07 August, 2003 (07.08.03)	Date of mailing of the international search report 19 August, 2003 (19.08.03)
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Name and mailing address of the ISA/ Japanese Patent Office	Authorized officer
Facsimile No.	Telephone No.

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PCT/JP03/07594

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 96/15159 A1 (SHELL INTERNATIONALE RESEARCH MAATSCHAPPU B.V.), 23 May, 1996 (23.05.96), Claims & JP 10-508655 A & AU 9539831 A & EP 792295 A1 & KR 97707172 A & TW 338044 A & US 5641856 A & ZA 9509606 A	5
Y	JP 2000-001529 A (The Yokohama Rubber Co., Ltd.), 07 January, 2000 (07.01.00), Claims & US 2002/0086592 A1 & DE 19902484 A1	5
Y	JP 2001-081240 A (The Yokohama Rubber Co., Ltd.), 27 March, 2001 (27.03.01), Claims & DE 10046024 A1	5
N	JP 61-205447 A (Fuji Oil Co., Ltd.), 11 September, 1986 (11.09.86), Claims; page 2, lower left column, lines 4 to 17	8, 9
Y	EP 134649 A2 (NATIONAL RESEARCH DEVELOPMENT CORP.), 20 March, 1986 (20.03.86), Claims & JP 60-054695 A & DE 3468435 G & US 4638059 A	9, 14
Y	JP 2000-281805 A (Daicel Chemical Industries, Ltd.), 10 October, 2000 (10.10.00), Claims; page 2, Par. No. [0012] (Family: none)	9, 14
A	WO 95/20629 A1 (MICHELIN RECHERCHE ET TECHNIQUE S.A.), 03 August, 1995 (03.08.95), Claims & JP 08-508541 A & AU 9514118 A & BR 9505825 A & CN 1122143 A & CZ 9502459 A3 & DE 69516975 E & EP 712427 A1 & FI 9504505 A & FR 2715406 A1 & HU 72273 A & MX 9504065 A1 & SK 9501162 A3 & US 5880278 A	1-21
A	EP 870793 A2 (NIPPON SHOKUBAI CO., LTD.), 14 October, 1998 (14.10.98), Claims & JP 10-338711 A & US 6207762 B1	1-21

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International application No.

PCT/JP03/07594

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 98/15347 A1 (COÖPERATIEVE VERKOOP-EN PRODUCTIEVERENIGING VAN AARDAPPELMEEL EN DERIVATEN AVEBE B.A.), 16 April, 1998 (16.04.98), Claims & JP 2001-501670 A & AU 9744740 A & DE 697100878 E & EP 932444 A1 & NL 1004214 C2 & RU 2193585 C2	1-21
A	WO 98/55147 A1 (BATTELLE MEMORIAL INSTITUTE), 10 December, 1998 (10.12.98), Claims & JP 2001-508802 A & EP 986402 A2	1-21
P,A	JP 2003-183348 A (The Yokohama Rubber Co., Ltd.), 03 July, 2003 (03.07.03), Claims (Family: none)	1-21